

# DE-MAPPING METHOD FOR WIRELESS COMMUNICATIONS SYSTEMS

## Abstract

A de-mapping method for wireless communications systems transforms an I signal and a Q signal transformed from wireless signals received by a receiver in a wireless communications system into a plurality of sequentially ordered I and Q weighting values respectively. The first I and the first Q weighting values are set to be values of the I and Q signals respectively, and following I and Q weighting values are set to be products of bit signs corresponding to preceding respective I and Q weighting values and differences between the preceding I and Q weighting values and a threshold value corresponding to the preceding I and Q weighting values by determining signs of the preceding I and Q weighting values.